CLASSIFIED MESSAGE

SECRET

25X1 ORIG :
UNIT : CD/OSA
25X1 EXT :
DATE: 4 SEPT. 64

25X1 TO :

FROM: DIRECTOR

CONF:

INFO :

ROUTING			
1	CD/OSA	9	
2	AD	10	
3	MD	11	
4	D/TECH	12	
5	SD	13	
6	RB	14	
7		15	
8		16	

PRECEDENCE				
	DEFERRED		PRIORITY	INITIAL
X	ROUTINE		OPERATIONAL IMMEDIATE	INITIAL

ECP-195

OSA 1-15 Ca

23921

25X1 TO | INFO | CITE 25X1 3433

25X1

ECP-195 APPLICABLE TO AND APPROVED BY CUSTOMER NO. 1 ONLY.

DELIVERY IN SIX MONTHS FROM AVCO IS ACCEPTABLE.

END OF MESSAGE

Make another copy - ECP

25X1

25X1

C/CD/OSA

RELEASING OFFICER

COORDINATING OFFICERS

SECRET

GROUP 1 Excluded from automatic downgrading and declassification

AUTHENTICATING OFFICER

 Copy No. 3

LOCKHEED AIRCRAFT CORPORATION	ENGINEERING STUDY ☐ CHANGE PROPOSAL ☒	LAC - 195
DATE 8-13-64	AFFECTS: WSPO ☐	PROJECT ☒
NAME OF MAJOR COMPONENT	PART OR LOWEST SUBASSEMBLY	PART NO. & MODEL OR TYPE

TITLE OF PROPOSAL : AT-400B H.F. TRANSCEIVER INSTALLATION & EVALUATION

NATURE OF PROPOSAL :

See Page 2

Concur FCS Commo/OSA

Concurred in By. VRM IDGA OSA. 29 Aug. P.

REASON FOR PROPOSAL :

See Page 3

4 Sept Commo Sup 60 mo Rate O.

ES	ESTIMATED COST AND TIME INVOLVED : ADDITIONAL FUNDING REQUIRED :
CP	ESTIMATED COST FOR KITS OR PARTS : See Page 3 ADDITIONAL FUNDING REQUIRED : None. SP-1923 Customer #1

ITEMS AFFECTED BY PROPOSAL :

SAFETY	MISSION EFFECTIVENESS	PERFORMANCE	OPERATING PROCEDURE	INTERCHANGEABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL
☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒

EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD

SOURCE OF PARTS FOR KIT	AVAILABILITY _____ WEEKS AFTER APPROVAL
LAC	See Page 3

DISPOSITION OF SPARES AFFECTED

None

INITIATED BY :	APPROVED : WSPO PROJECT
LAC	

NATURE OF PROPOSAL:

Modify one test aircraft for evaluation as follows:

Replace the 618T-3 transceiver and pressure box in the nose and the control panel in the cockpit with the AT-400B transceiver system, manufactured by AVCO Corp. The present 180L-3 antenna tuner is compatible with the AT-400B and is not affected. This configuration is to be tested by the contractor to verify operational ability in natural ambient conditions at altitude. It will then be delivered to the customer for further evaluation.

The AT-400B system is new and not fully tested and production models will not be available for approximately 18 months. Purchase of two systems (one to be used as a spare) which will be manufactured by the AVCO Engineering Shop is recommended to advance the test program and eventual modification of all aircraft. Components and construction of these systems will be identical to the production units. If subsequent changes arise due to further testing, AVCO will modify the two systems at no cost to the customer.

The AT-400B system offers the following advantages:

1. Operation at aircraft's maximum altitude.

2. Operation with 28 volts DC power, which permits use of a new standby chemical battery in event aircraft power is lost. This phase will be proposed by separate ECP.

3. Reduction of approximately 50% in size and 44 lbs. of weight of existing equipment. (The 44 lbs. of weight reduction includes 20 lbs. of lead which can be removed from the tail.)

4. Complete solid state design except for two redundantly connected tubes provides an anticipated 730 hours of operation between failures.

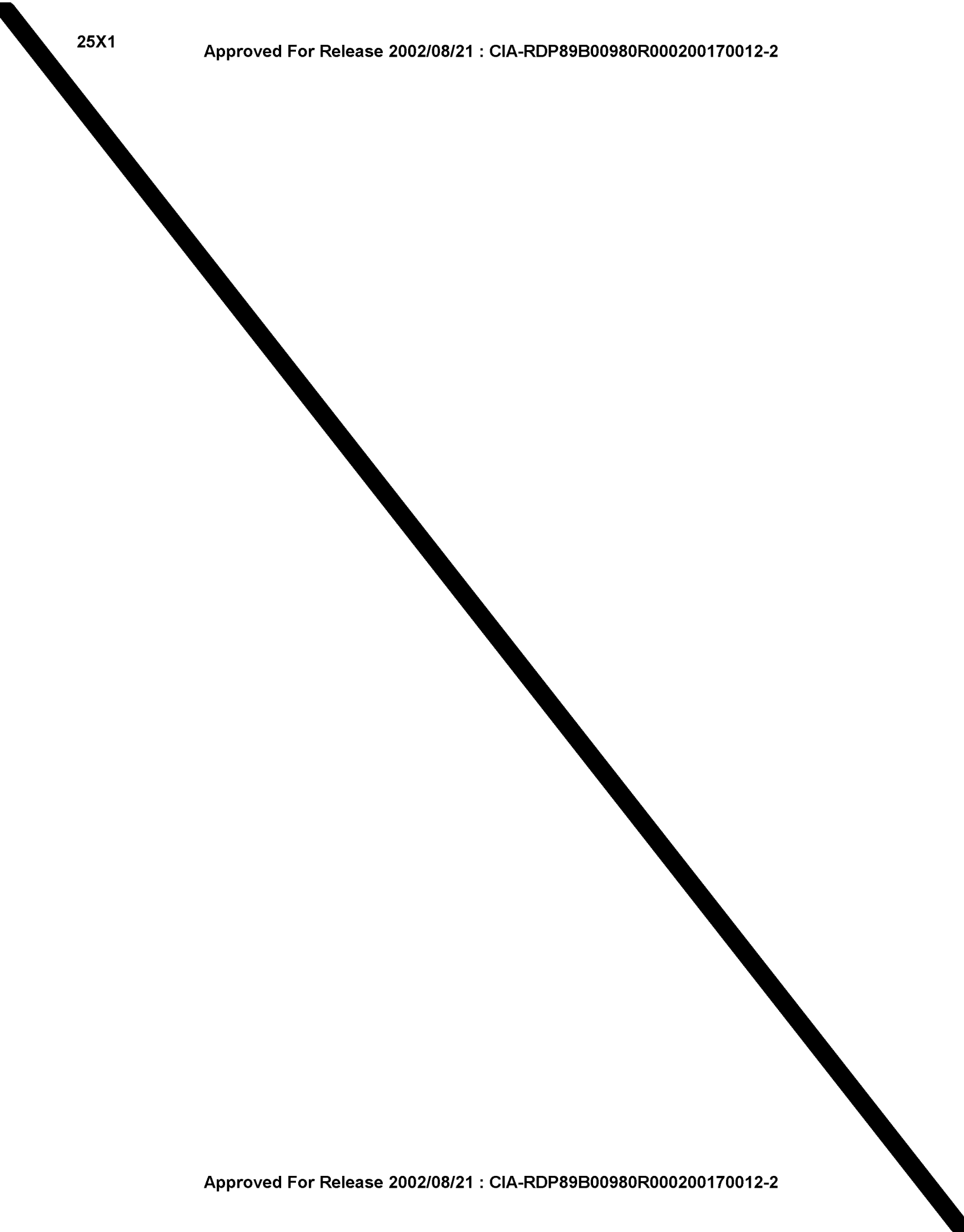
5. 280,000 channels at 100 cycle channel spacing vs. 28,000 channels at 1-KC channel spacing, provides greater choice of frequencies and greater possibility of selecting a clear channel.

After evaluation is complete an ECP will be submitted to furnish Service Bulletins to modify the entire fleet.

REASON FOR PROPOSAL:

The existing 618T-3 transceiver requires cockpit pressurization and is not operable above 38,000 feet cabin altitude and requires both DC and AC power for operation. The 618T-3 is disabled in the event of an engine flame-out, loss of cockpit pressure, loss of inverter power or loss of the DC generator.

25X1 Since the [redacted] system requires use of the 618T-3 system for transmission to the ground facilities, these limitations are also imposed on this system during a period of emergency when [redacted] would be most valuable. 25X1



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